

state, the respective syringes **3** and **4** are mainly supported by the protrusions **65** of the respective cylinder storage grooves **64b** and **64c**.

[0092] The syringe holder **60** in which the syringes **2**, **3** and **4** are stored is placed in the sterilized package, and is subjected to sterilizing treatment together with the balloon catheter **40** and the like. At this time, since there are sufficient allowances between the syringes **2**, **3** and **4** and the holding parts **61**, **62** and **63**, respectively, and the contact areas between the syringes **2**, **3** and **4** and the holding parts **61**, **62** and **63** are kept at the minimum areas owing to the protrusions **65**, **66**, gas can easily run through. Furthermore, since the flange storage grooves **36a**, **36b** and **36c** and the plunger storage grooves **37a**, **37b** and **37c** are formed into inclined surfaces or surfaces having the radius of curvature different from the syringes **2**, **3** and **4** so as to form the clearances with respect to the syringes **2**, **3** and **4**, gas can easily run through. Therefore, the syringes **2**, **3** and **4** are reliably sterilized by sterilizing gas.

[0093] In this embodiment, since the holding parts **61**, **62** and **63** are formed so as to secure the sufficient allowances with respect to the syringes **2**, **3** and **4**, the clearances between the holding portions **61**, **62**, **63** and the syringes **2**, **3**, **4** are secured, whereby the syringes **2**, **3** and **4** can be reliably sterilized. In particular, since the contact areas with respect to the syringes **2**, **3** and **4** are reduced by means of the protrusions **65** and **66**, sterilization of the syringes **2**, **3** and **4** can be reliably performed.

[0094] Also, since the allowances are formed with respect to the syringes **2**, **3** and **4**, and the distal ends of the respective syringes **2**, **3** and **4** are exposed, the syringes **2**, **3** and **4** can easily be taken out.

[0095] Subsequently, referring to the drawings, a third embodiment of the invention will be described. The same components as the above-described embodiments are represented by the same reference numerals. Description overlapped with the above-described embodiments will be omitted.

[0096] This embodiment relates to a modification of the holding part.

[0097] As shown in FIG. 11, holding parts **71**, **72** and **73** of a syringe holder **70** respectively have cylinder storage grooves **74a**, **74b** and **74c** being substantially oval in cross-section.

[0098] The cylinder storage groove **74a** is configured in such a manner that the portion near an upper opening **71b** is protruded so as to be close to each other, so that protrusions **75a** are formed, and the bottom side is formed into an oval shape. The number of contact portions between an inner wall of the cylinder storage groove **74a** and the cylinder **6** are three positions at maximum including one on the bottom side and two on the side of the protrusions **75a**. Each of them is subjected to linear contact. Other portions of the syringe **2** are not in contact with the holding part **71** and clearances are formed.

[0099] The cylinder storage groove **74b** of the holding part **72** is larger than the cylinder storage groove **74a**, is provided with protrusions **75b** near an upper opening **72b**, and is oval shape on the bottom side. The cylinder storage groove **74c** of the holding part **73** is larger than the cylinder storage groove **74b**, is provided with protrusions **75c** near an upper opening **73b**, and is oval shape on the bottom side.

[0100] They may be the cylinder storage grooves **81**, **82** and **83** as shown in FIG. 12.

[0101] The cylinder storage groove **81** is substantially formed into a cross-shape with reference to an upper opening **81b**. The cylinder **6** is mainly stored in a center portion of the cylinder storage groove **81**, and clearances are defined with respect to the cylinder **6** by extended portions **81a** extending in four directions from the center portion. The respective corners which correspond to the proximal ends of the extended portions **81a** come into linear contact with the cylinder **6** at four positions at the maximum.

[0102] The cylinder storage groove **82** substantially formed into a T-shape with reference to an upper opening **82b**. The width of the upper opening **82b** is smaller than the cylinder **22**. The bottom side is increased in width, and this widened portion **82a** defines clearances with respect to the cylinder **22**. The cylinder storage groove **82** is configured to come into linear contact with the cylinder **22** at three portions at the maximum including the corners of the widened portion **82a** and the bottom.

[0103] The cylinder storage groove **83** is substantially formed into a triangular shape. In this case, the bottom corresponds to the bottom side of the triangle, and an upper opening **83b** corresponds to one apex. The width of the upper opening **83b** is smaller than the outer diameter of the cylinder **26**, and the width of the portion near the bottom side is larger than the cylinder **26**. The cylinder storage groove **83** is configured to define the clearance with respect to the cylinder **26**, and contact with the cylinder **26** at three portions at the maximum including the bottom and the inclined two side walls.

[0104] This syringe holder may be composed of the three cylinder storage grooves of the same type selected from the cylinder storage grooves **81**, **82** and **83**.

[0105] With the cylinder storage grooves **74a**, **74b**, **74c**, **81**, **82** and **83**, since the plurality of syringes **2**, **3** and **4** can be held in line, usability is improved, and time for manipulation may be reduced. Since the clearances are defined between the syringes **2**, **3** and **4** and the cylinder storage grooves **74a**, **74b**, **74c**, **81**, **82** and **83**, gas can easily run through during gas sterilization, so that sufficient sterilization is achieved.

[0106] Referring to the drawings, a fourth embodiment of the invention will be described. The same components as the above-described embodiments are represented by the same reference numerals. Description overlapped with the above-described embodiments will be omitted.

[0107] FIG. 13 shows a state in which a syringe **92** is stored in a plurality of recessed holding parts **91** of a syringe holder **90**.

[0108] The syringe **92** includes the cylinder **26**, which is provided with an indication **93** on the outer peripheral surface at a position shifted from the direction of extension of the flange **12c** by about 90° in the circumferential direction. In FIG. 13, the indication **93** includes a statement such as "For 15 mm balloon" or "15 mm". This indication means that this syringe **92** can expand the balloon **42** to a size corresponding to the expanded diameter of 15 mm at the maximum.

[0109] The holding part **91** of the syringe holder **90** differs from the holding part **61** in the second embodiment in the structure of a flange storage groove **94c**. As shown in FIG. 14, the flange storage groove **94c** includes a flat portion **95** as the bottom. The flat portion **95** is formed at a depth so that the flange **12c** does not come into tight-contact with the flat portion **95** but the flat portion **95** prevents the rotation of the flange **12c** when the syringe **92** is stored in the flange storage groove **94c**. With this flat portion **95**, movement in other